

medium, insomuch that such a small particle will at diversly oblique incidences reflect all sorts of Colours, in so great a variety that the Colour resulting from them all, confusedly reflected from a heap of such particles, must rather be a white or grey than any other Colour, or at best it must be but a very imperfect and dirty Colour. Whereas if the thin body or small particle be much denser than the ambient medium, the Colours according to the 19th Observation are so little changed by the variation of obliquity, that the rays which are reflected least obliquely may predominate over the rest so much as to cause a heap of such particles to appear very intently of their Colour.

It conduces also something to the confirmation of this Proposition, that, according to the 22th Observation, the Colours exhibited by the denser thin body within the rarer, are more brisque than those exhibited by the rarer within the denser.

## P R O P. VII.

*The bigness of the component parts of natural Bodies may be conjectured by their Colours.*

For since the parts of these Bodies by Prop. 5. do most probably exhibit the same Colours with a Plate of equal thickness, provided they have the same refractive density; and since their parts seem for the most part to have much the same density with Water or Glass, as by many circumstances is obvious to collect; to determine the sizes of those parts you need only have recourse to the precedent Tables, in which the thickness of Water or Glass exhibiting any Colour is expressed. Thus  
if

if it be desired which being of green of the third be  $\frac{161}{100000}$  parts of

The greatest of the Colour of any have recourse to whence may be

Scarlets, and be pure and interder. Those of pretty good, only and the orange a mixture of violet

There may be the purest are of all vegetables tenderness of their they wither some and others to a perhaps to red, passing intermediate Colours by the exhaling of tinging corpuscles ted by the accretion that moisture. Not the same order with the because the change though usually not lively to be of the